


## REMARKS

The present Preliminary Amendment is submitted to delete the multiple dependencies of claims 9, 16-18 and 21, thereby placing such claims in condition for examination and reducing the required PTO filing fee.

Copies of the amended portion of the claims with changes marked therein is attached and entitled "*Version with Markings to Show Changes Made.*"

Respectfully submitted,

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disposed to extend through a cooling jacket provided at an outer periphery of said auxiliary burning gas inlet pipe so as to cool said auxiliary burning gas inlet pipe by supplying a cooling medium into said cooling jacket.

9. *Amended* A waste gas treatment system according to ~~any one of~~ claims 4 ~~to 8~~, wherein said cooling medium is one of water, air, other liquids and gases.

10. A waste gas treatment system having a burner part and a combustion chamber provided at a downstream side of said burner part, wherein combustion flames are formed from said burner part toward said combustion chamber, and a waste gas is introduced into said combustion flames, thereby oxidatively decomposing said waste gas,

wherein dust removing means is provided to remove dust from an inner wall of said burner part and/or an inner wall of said combustion chamber or to prevent adhesion of dust thereto.

11. A waste gas treatment system according to claim 10, wherein said dust removing means comprises a dust scraping plate secured to a distal end of a shaft vertically moving in said burner part and/or combustion chamber.

12. A waste gas treatment system according to claim 10, wherein said dust removing means forms a layer of air stream along an inner wall surface of said burner part and/or an inner wall surface of said combustion chamber so that said layer of air stream prevents dust from adhering to the inner wall surface of said burner part and/or the inner wall surface of said combustion chamber.

portion, and a cleaning gas is supplied from an outside of said piping through the hollow portions of said main shaft and scraping member and blown off from said opening.

16. <sup>Amended</sup> A dust remover according to claim 14 ~~or 15~~, wherein said scraping member and main shaft are formed from hollow pipes, respectively, and respective hollow portions of said scraping member and main shaft communicate with each other, and wherein a multiplicity of holes or slits are provided in surfaces of both said scraping member and main shaft or in the surface of said scraping member so as to communicate with the hollow portions, and a cleaning gas is supplied from an outside of said piping through the hollow portions of said main shaft and scraping member and blown off from said multiplicity of holes or slits.

17. <sup>Amended</sup> A method of operating the dust remover according to claim 15 ~~or 16~~, wherein said cleaning gas is a neutralizing gas for neutralizing the gas flowing through said piping.

18. <sup>Amended</sup> A method of operating the dust remover according to claim 15, ~~16 or 17~~, wherein said cleaning gas is blown off continuously or intermittently.

19. A waste gas treatment system having a burner part and a combustion chamber provided at a downstream side of said burner part, wherein combustion flames are formed from said burner part toward said combustion chamber, and a waste gas is introduced into said combustion flames, thereby oxidatively decomposing said waste gas,

wherein said burner part has a cylindrical member which is closed at a top thereof and has an opening at a

bottom thereof, said cylindrical member having a waste gas inlet in the top thereof and an air nozzle at a predetermined position on a side wall thereof, said cylindrical member further having an auxiliary burning gas nozzle in the side wall in vicinity of said opening,

said air nozzle being arranged to blow a swirling air flow downward against combustion flames formed downward below said opening as a result of igniting an auxiliary burning gas injected from said auxiliary burning gas nozzle.

20. A waste gas treatment system according to claim 19, wherein said air nozzle is provided in such a manner that a center line of said air nozzle is close to a tangent to an inner wall surface that is parallel to said center line so that air will not stagnate at the inner wall surface.

21. <sup>Amended</sup> A waste gas treatment system according to claim 19 ~~or~~ ~~20~~, wherein said air nozzle and auxiliary burning gas nozzle are provided close to each other so that dust present between said air nozzle and auxiliary burning gas nozzle can be blown away with air blown off from said air nozzle.

22. A waste gas treatment system having a burner part and a combustion chamber provided at a downstream side of said burner part, wherein combustion flames are formed from said burner part toward said combustion chamber, and a waste gas is introduced into said combustion flames, thereby oxidatively decomposing said waste gas,

wherein said burner part has a cylindrical member which is closed at a top thereof and has an opening at a